

10/539241

290.0004.seq.list.45.txt
SEQUENCE LISTING

JC17 Rec'd PCT/PTO 16 JUN 2005

<110> PURDUE RESEARCH FOUNDATION

<120> pRNA CHIMERA

<130> 290-0004-0130

<140> PCT/US03/039950

<141> 2003-12-16

<150> 10/373,612

<151> 2003-02-24

<150> 60/433,697

<151> 2002-12-16

<160> 45

<170> PatentIn Ver. 3.3

<210> 1

<211> 120

<212> RNA

<213> Bacteriophage phi-29

<400> 1

ucaaugguac gguacuucca uugucaugug uauguugggg auuaaaacccu gauugaguuc 60
agcccacaua cuuuguugau ugguugucaa ucauggcaa agugcacgcu acuuugauaa 120

<210> 2

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA template

<400> 2

ttcctaaagg aatgg

15

<210> 3

<211> 168

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic pRNA chimera

<400> 3

guugauuggu ugucaaaucau ggcaaaagug cacgcuacuu ugaaaaacaa auucuaaaac 60
ugaugagucc gugaggacga aagcuguaac acaaaaucaa ugguacggua cuuccauugu 120
cauguguaua uuggggauua aaccugauu gaguucagcc cacauaca 168

<210> 4

<211> 24

<212> RNA

<213> Artificial Sequence

<220>

290.0004.seq.list.45.txt
<223> Description of Artificial Sequence: Synthetic portion of U7
snRNA substrate

<400> 4
guguuacagc ucuuuuagaa uuug 24

<210> 5
<211> 46
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic anti-12-LOX
ribozyme

<400> 5
acgcgguugu accugaugag uccgugagga ccaaaccgg agaaga 46

<210> 6
<211> 25
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA
substrate

<400> 6
ucuucuccgg gucguacaac cgcg 25

<210> 7
<211> 55
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (25)..(32)
<223> any nucleotide and this region may be 4-8 nucleotides,
preferably 4 or 5 nucleotides

<220>
<223> Description of Artificial Sequence: Synthetic pRNA
chimera

<400> 7
uugucaugug uauguugggg auuannnnnn nncugauuga guucagccca cauac 55

<210> 8
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA loop

<400> 8
taatacgact cactata 17

290.0004.seq.list.45.txt

<210> 9
<211> 94
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic U7 template

<400> 9
gggaaagcua auaguguuac agcucuuua gaauuugucu agcagguuu cugacuucgg 60
ucggaaaacg ccuaacguug caugccugca gguc 94

<210> 10
<211> 47
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RzU7 template

<400> 10
ggcaaauucu aaaacugaug aguccgugag gacgaaagcu guaacac 47

<210> 11
<211> 68
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted SF5
pRNA chimera

<400> 11
gugagacauc guauuuacua uaauguaugu gugucgguu guuuucggau ugaguuccgc 60
cgacagca 68

<210> 12
<211> 72
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
B103 pRNA chimera

<400> 12
gacaaggugc aacacuuccu auaguauggu gcgugauugg gguauauccu gauugaguuc 60
agccccacacg cc 72

<210> 13
<211> 71
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
phi29/PZA pRNA chimera

290.0004.seq.list.45.txt

<400> 13
ucaaugguac gguacuucca uugucaugug uauguugggg auuaaacccu gauugaguuc 60
agcccacaua c 71

<210> 14
<211> 72
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
M2/NF pRNA chimera

<400> 14
gacaaggugc aacacuuccu auaguauggc acaugauugg gguauauccu gauugaguuc 60
agcccacaua uc 72

<210> 15
<211> 68
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
GA1 pRNA chimera

<400> 15
uaaggcattug agguaaaaau auauaggcug ugcaacgggc auccuacugu aaaaaguacc 60
guugacag 68

<210> 16
<211> 75
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted
aptamer pRNA

<400> 16
ggaaugguac gguacuucca uugucaugug uaggguuggg aagaaacugu ggcacuucgg 60
ugccagcaac ccuac 75

<210> 17
<211> 188
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic ribozyme
pRNA-RzA transcript

<400> 17
gcuaguucua gaguugauug guugucaauc auggcaaaag ugcacgcuac uuugcaaaac 60
aaauucuuua cugaugaguc cgugaggacg aaacggguca aaagcaauug uacgguacuu 120
ccauugucau guguauguug gggauuaaac ccugauugag uucagccccac auacgguacc 180
ucgacguc 188

290.0004.seq.list.45.txt

<210> 18
<211> 66
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic ribozyme
RzA transcript

<400> 18
gcuaguucua gacaaauucu uuacugauga guccgugagg acgaaacggg ucgguaccuc 60
gacguc 66

<210> 19
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 3'
overhang oligonucleotide

<400> 19
aagccgaauu 10

<210> 20
<211> 59
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 3'
overhang oligonucleotide

<400> 20
aagccgaauu ccagcacacu ggcggccguu acuaguggau ccgagcucgg uaccaagcu 59

<210> 21
<211> 54
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 3'
overhang oligonucleotide

<400> 21
ccuuuuacau gcgacacaga cgaagcgcua aaacguggga uucugugucg uuuu 54

<210> 22
<211> 120
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 3'
overhang oligonucleotide

<400> 22

290.0004.seq.list.45.txt

ucaaugguac gguacuucca uugucaugug uauguugggg auuaaacccu gauugaguuc 60
agcccacaua cuuuguugau ugguugucaa ucauggcaa agugcacgcu acuuugauaa 120

<210> 23
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic hammerhead
ribozyme

<400> 23
caaauucuuu acugaugagu ccgugaggac gaaaacgguc 40

<210> 24
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic HBV polyA
target

<400> 24
gaccguaua aagaauuug 19

<210> 25
<211> 162
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic ribozyme
pRNA-RZA

<400> 25
guugauuggu ugucaaaucau ggcaaaagug cacgcuacuu ugaaaaacaa auucuuuacu 60
gaugaguccg ugaggacgaa acgggucaa auaauggua cgguacuucc auugucaugu 120
guauguuggg gauuaaaccc ugauugaguu cagcccacau ac 162

<210> 26
<211> 119
<212> RNA
<213> Bacteriophage phi-29

<400> 26
gcaaugguac gguacuucca uugucaugug uauguugggg auuaacgccu gauugaguuc 60
agcccacaua cuuuguugau ugucgucaa ucauggcaa agugccgcua cuuugcuaa 119

<210> 27
<211> 117
<212> RNA
<213> Bacteriophage phi-29

<400> 27
ucaaugguac gguacuucca uugucaugug uauguugggg auuaaacccu gauugaguuc 60
agcccacaua cuuuguugau ugguugucaa ucauggcaa agugcacgcu acuuuga 117

290.0004.seq.list.45.txt

<210> 28
<211> 44
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted SF5 pRNA chimera

<400> 28
gggagcguaa aacacucuug cauuaaaaau augacugauu ucgc 44

<210> 29
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted B103 pRNA chimera

<400> 29
ggggauugau agccucuuua cuaaaaguga uuguuuucuuu guc 43

<210> 30
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted phi29/PZA pRNA chimera

<400> 30
guugauuggu ugucaaucau ggcaaaagug cacgcuacuu uga 43

<210> 31
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted M2/NF pRNA chimera

<400> 31
ggggauugau aacccucuuua cuaaaaguga uuguuuucuuu guc 43

<210> 32
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted GA1 pRNA chimera

290.0004.seq.list.45.txt

<400> 32
uguugcggugg uagcaauacu auauauacuc ucucucguuu ua 42

<210> 33
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic permuted aptamer pRNA

<400> 33
guugauuggu ugucaaaucau ggcaaaagug cacgcuacuu ucc 43

<210> 34
<211> 71
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic circularly permuted pRNA

<400> 34
gcaaugguac gguacuucca uugucaugug uauguugggg auuaaacccu gauugaguuc 60
agcccacaua c 71

<210> 35
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic circularly permuted pRNA

<400> 35
guugauuggu ugucaaaucau ggcaaaagug cacgcuacuu ugc 43

<210> 36
<211> 157
<212> RNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (29)..(31)
<223> a, c, t, g, unknown or other

<220>
<221> modified_base
<222> (32)..(131)
<223> any nucleotide and this region may be 25-100 nucleotides

<220>
<221> modified_base
<222> (132)..(134)

290.0004.seq.list.45.txt

<223> a, c, t, g, unknown or other

<220>

<223> Description of Artificial Sequence: Synthetic circularly permuted pRNA

<400> 36
guacuguuac cuucaaggca ugguaacgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnncguuuc aucgcacgug aaaacgg 157

<210> 37
<211> 119
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic cpRNA transcript

<400> 37
ggaaugguac gguacuccau ugucaugugu auguugggga uuuaacccug auugaguuca 60
gcccacauac uuuguugauu gguugucaaau cauggcaaag ugcacgcuac uuuccuaaa 119

<210> 38
<211> 29
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA template

<400> 38
ttccttaata cgactcacta taggaatgg 29

<210> 39
<211> 133
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic cpRNA transcript

<400> 39
ggaaugguac gguacuccau ugucaugugu auguugggga uuuaacccug auugaguuca 60
gcccacauac uuuguugauu gguugucaaau cauggcaaag ugcacgcuac uuuccuaau 120
acgacucacu aua 133

<210> 40
<211> 120
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic phi29 viral particle

<400> 40

290.0004.seq.list.45.txt

ucaaugguac gguacuucca uugucaugug uauguugggg auuaggaccu gauugaguuc 60
agcccacaua cuuuguugau ugcgugucaa ucauggcaa agugcacgcu acuuugauaa 120

<210> 41
<211> 120
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic chimeric pRNA

<400> 41
guugauugcg ugucaaaucau ggcuuuugag aagcuucuga ugaguccgug aggacgaaaau 60
gagucuguuu ugucaugugu auguuggggaa uuaggaccug auugaguua ccccacauac 120

<210> 42
<211> 108
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic chimeric pRNA

<400> 42
guugauuugu cgucaaaucau ggccucagag acagagcaga aacgacaguu caagccgaag 60
ucauguguau guuggggauu aacgcccugau ugaguucagc ccacauac 108

<210> 43
<211> 72
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic chimeric pRNA

<400> 43
gucaugugua uguuggggau uagacacuga uugaguuucag ccccacauacg uugauugucc 60
gucaaaucaug gc 72

<210> 44
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic chimeric pRNA

<400> 44
cagacucauc aagcuucuc 19

<210> 45
<211> 28
<212> RNA
<213> Artificial Sequence

290.0004.seq.list.45.txt

<220>
<221> modified base
<222> (7)..(14)
<223> any nucleotide and this region may be 4-8 nucleotides,
preferably 4 or 5 nucleotides

<220>
<223> Description of Artificial Sequence: Synthetic pRNA
chimera

<400> 45
guugaunnnn nnnngucaaau cauggcaa

28